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Forte+ LED BLE

Bluetooth Low Energy beacon

Data sheet



Key features

- Suitable for outdoor and industrial applications
- Based on Nordic nRF52832
- Simultaneous support of iBeacon and Eddystone
- 3-axis accelerometer for motion detection
- High-visibility RGB LED
- Rugged IP67 enclosure
- Powered by replaceable CR123A lithium battery

| GATT and advertising | | |
|---|---|--|
| Full support for specifications Eddystone Configuration GATT Service by Google | | |
| Up to 4 slots configurable for Eddystone frame types: UID, URL, TLM, EID | | |
| Up to 4 slots configurable for the following frame types: iBeacon, Quuppa (emulation mode), Sensors | | |
| TX power | -40, -20 to 4 dBm (with 4 dB steps). Programmable for each slot | |
| Advertising interval | 0.1 to 60 secs. Programmable for each slot | |
| Global configuration options | non-connectable mode, anonymous mode, programmable time period, locked/unlocked mode, change password | |
| Firmware update | OTA (Over-the-Air) firmware update | |

| Device specifications | | |
|----------------------------|--|--|
| Electrical specifications | | |
| Core module | Nordic nRF52832 SoC (MCU and radio transceiver) | |
| MCU core | ARM Cortex-M4 32-bit CPU | |
| Current consumption (25°C) | Radio TX: 7.1 mA (0 dBm TX) Radio RX: 6.5 mA Idle mode: 3 μA Idle mode with accelerometer ON: 7 μA | |
| Radio specifications | | |
| Standard | Bluetooth 4.2 Bluetooth Low Energy (compatible with BLE 5.x) | |
| Frequency band | 2.402 to 2.480 GHz (according to Bluetooth 4.0 specifications) | |
| Advertising channels | CH37 (2.402 GHz), CH38 (2.426 GHz), CH39 (2.480 GHz) (according to Bluetooth 4.0 specifications) | |
| Channel spacing | 2 MHz (according to Bluetooth 4.0 specifications) | |
| TX power | Conducted: +4 dBm (max) EIRP (Equivalent Isotropic Radiated Power): +6 dBm (max) | |





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| Antenna | | |
|------------------------------|---|--|
| Туре | Integrated meandered planar inverted F-antenna (PIFA) | |
| Gain | 2 dB (max) | |
| Radiation diagram | Omnidirectional | |
| Power | | |
| Power supply | Battery | |
| Replaceable | Yes | |
| Туре | CR17345 (3V, lithium) | |
| Model | Panasonic Industrial CR123A (typical capacity 1500 mAh @ 25°C) | |
| Sensors and interfaces | | |
| Sensors | 3-axis MEMS linear accelerometer | |
| Interfaces | RGB LED | |
| Mechanical specifications | | |
| Material | Polycarbonate plastic | |
| Color | Body: light grey RAL7035 Lid: transparent | |
| Size | 50 x 52 x 35 mm (version without flanges) 50 x 80 x 35 mm (version with flanges) | |
| Weight | 60 gr (version without flanges) 67 gr (version with flanges) | |
| Fastening | Screws (not included), silicone glue, double side tape | |
| Opening | Front cover with two screws | |
| Protection | IP67/NEMA6 | |
| Flammability | UL 94 HB | |
| Environmental specifications | | |
| Operating temperature | -30°C to +70°C (battery operating life sharply decreases under -10°C) | |
| Storage temperature | +10°C to +30°C (with battery), -40°C to +85°C (without battery) | |
| Certifications | | |
| CE | | |

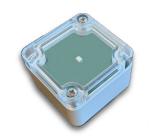




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Versions

NF

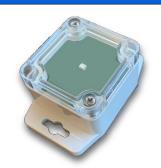


Enclosure without flanges.
Front cover allows an easy battery replacement.

Transparent front lid for high-visibility LED.

Size: 50 x 52 x 35 mm

WF



Enclosure with flanges.

Front cover allows an easy battery replacement. Transparent front lid for high-visibility LED.

Size w/o flanges: 50 x 52 x 35 mm Size w flanges: 50 x 80 x 35 mm